



medical
systems

SAVING LIVES
THROUGH RELIABLE
AND INNOVATIVE
TECHNOLOGY

Blood Management Solutions





Blood Management Solutions

For a reliable cold chain within the scope of safety of blood transfusion specifications.

Saving lives through reliable and innovative technology

UNDERSTANDING THE NEEDS OF MEDICAL PROFESSIONALS REQUIRES A CONSTANT DIALOGUE.

The medical challenges our partners and clients face on the ground can be overwhelming. By continuously engaging with them and gathering insights through dialogue and exchange, we are able to understand their evolving needs. As a key global player in the sector of medical technology, B Medical Systems is committed in delivering highly specialized and cutting-edge devices that always exceed expectations.

DESIGNING RELIABLE MEDICAL DEVICES IS AT THE HEART OF OUR INNOVATION PROCESS.

We feel deeply connected to the international community of healthcare professionals and use optimized industrial processes to offer reliable products and services that help develop a relationship of trust. By managing the design, manufacturing, distribution and after-sales elements, we adopt a lifecycle approach and can ensure the Total Cost of Ownership of our products is as low as possible.

PUTTING PEOPLE FIRST STARTS WITHIN OUR ORGANIZATION.

We take a customer-oriented approach in everything we do, and are guided by our values and high standards. Our team of highly skilled professionals share our desire to excel and stay ahead of the game in the field of technological innovation. As an organization, our core aim is to save lives through reliable and innovative technology.

SAFE GLOBAL BLOOD MANAGEMENT: FROM COLLECTION TO TRANSFUSION, TRANSPORTATION, PROCESSING AND STORAGE.

B Medical Systems is a renowned expert in blood safety and management. Our reliable blood cold chain strictly observes international standards and World Health Organization recommended specifications. We keep blood safe through temperature-controlled transportation, processing and storage solutions. Additionally B Medical Systems offers innovative solutions for blood and derivatives treatment. These include an improved Contact Shock Freezer that delivers optimized performance with its innovative system – it enables faster and more homogenous freezing that saves time and money.



SUMMARY

- 04-05** B Medical Systems Safety Standards
For technical reliability and environmental friendliness
- 06-15** Blood Management Chain
A selected range of products for an uninterrupted and precise temperature controlled blood cold chain
- 16-19** °B Connected, DCU & Electronics
For optimum control and protection of your preparations

A complete line for a reliable blood management chain

Blood Management Solutions

Blood Bank Refrigerators

B RANGE



	B51	B131	B291	B381	BF261	B401	B501	B701	B901
Gross / Net volume (cu ft)	1.8 / 1.6	4.3 / 3.7	10.5 / 9.5	12.8 / 11.6	R 4.3 / 3.7 F 4.3 / 3.7	16.9 / 13.8	22.4 / 18.3	28.0 / 22.8	33.5 / 27.3
Storage capacity (blood bags)	24 (450ml) / 31 (350ml)	51 (450ml) / 79 (350ml)	159 (450ml) / 235 (350ml)	213 (450ml) / 313 (350ml)	51 (450ml) / 79 (350ml) 84 (Plasma bags at 350ml)	270 (450ml) / 375 (350ml)	360 (450ml) / 500 (350ml)	450 (450ml) / 625 (350ml)	540 (450ml) / 750 (350ml)

Refrigerator & Freezer combined

Plasma Storage Freezers

F RANGE



	F131	F291	F381	F401	F501	F701	F901
Gross / Net volume (cu ft)	4.3 / 3.7	10.5 / 9.9	11.9 / 11.2	16.9 / 13.7	22.4 / 18.2	27.9 / 22.6	33.5 / 27.1
Storage capacity (plasma bags)	84 (350ml)	251 (350ml)	284 (350ml)	345 (350ml)	460 (350ml)	575 (350ml)	690 (350ml)

Contact Shock Freezers

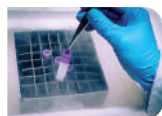
CSF RANGE



	CSF61 L	CSF101 L
Freezing capacity (plasma bags)	20 (1000ml) / 60 (350ml)	32 (1000ml) / 96 (350ml)

Ultra-Low Freezers

U RANGE



	U201	U401	U501	U701	U901
Gross / Net volume (cu ft)	8.2 / 7.7	16.9 / 16.0	22.4 / 21.3	27.9 / 26.5	33.5 / 31.8
Storage capacity (plasma bags)	150 (350ml)	300 (350ml)	400 (350ml)	500 (350ml)	600 (350ml)

Transport Systems

MT RANGE



	MT2	MT4	MT8	MT12	MT25
Gross volume (cu ft)	0.08	0.28	0.71	0.85	1.55
Storage capacity (bags)	1 (450ml) / 2 (270ml)	4 (450ml) / 6 (270ml)	8 (450ml) / 14 (270ml)	15 (450ml) / 25 (270ml)	26 (450ml) / 40 (270ml)
Cooling system	Passive	Passive	Passive	Passive	Passive

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY



Safety Standards B Medical Systems

The **Safety Standards developed by B Medical Systems** define certain significant technical features of a product. These ensure the safe storage of the preparations as well as setting the highest standards of safety for the user.

PRECISION LINE	PREMIUM LINE	CSF RANGE	
●	●	●	B Medical Systems Electronics
●			B Medical Systems digital display
	●	●	B Medical Systems 7" full touchscreen display
●			Safety door lock (with 2 keys) and key-operated power switch ON/OFF (with 2 keys)
●	●	●	Power indicator light and digital temperature indicator (display: 0.1 digits)
●	●		Controlled fan cooling system for constant temperature and even temperature distribution across the entire refrigerating chamber <i>[not applicable for F models (Precision Line) & U range]</i>
●	●		Automatic switch-off of the evaporator fans when the door opens <i>[not applicable for F models (Precision Line) & U range]</i>
●	●	●	Self-contained alarm system with integrated battery takes over the alarm function and temperature value measurements in case of system failure for at least 48 hours
●	●	●	Acoustic and visual alarm signal in case of temperature alarm and system failure
	●	●	The alarm history function on the electronic stores all the relevant values during a temperature alarm, such as: min., max. and average temperature <i>[+ alarm duration for Premium Line models]</i>
●	●	●	Remote transmission alarm signal (via potential-free contact) in case of temperature alarm (change-over contact)
●	●		Safety thermostat prevents dropping of the temperature below +2°C <i>[not applicable for F/U ranges]</i>
●	●		Door opening alarm (visual / acoustic)
●		●	Designed and tested for climatic class SN (ambient temperature range +10°C to +32°C)
	●		Designed and tested for climatic class SN / T (ambient temperature range +10°C to +43°C)
	●	●	Interior made from stainless steel <i>[evaporator plates and drip channel made from stainless steel for CSF range]</i>
●	●	●	Internal LED lighting <i>[not applicable for F/U ranges]</i>
●	●	●	Additional remote transmission alarm signal (via potential-free contact) in case of system failure (change-over contact)
	●	●	Smooth castors for optimum flexibility of movement
	○	○	External water cooling <i>[not applicable for B range]</i>
	○	●	Ambient temperature sensor
	●	●	Ethernet interface for the visualization of all operating and control functions (hardware and software settings) via "B Connected monitoring software on a peripheral device (computer)
○	○	○	"B Connected - Universal software for the monitoring of refrigeration devices, including the acquisition, recording and visualization of temperature data
○			DCU (Data Communication Unit) - Hardware module monitoring all operating conditions and passing them through to a central database – via local network (in combination with "B Connected)
	U		Integrated remote temperature monitoring device (RTMD), offering real-time worldwide remote monitoring, data access over WEB and GPS position

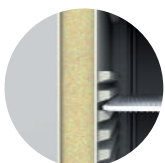
NEW

PRECISION LINE | MODELS B51, B/F131-291-381 & BF261



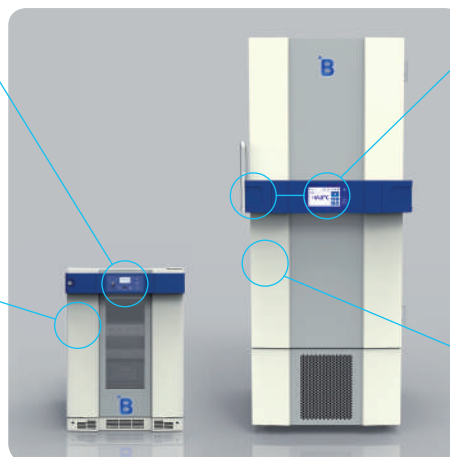
Integrated multifunction monitoring electronics

Integrated B Medical Systems multifunction electronics; with easy access in the door level; offers alarms, central alarm system, set point security, battery backup, full display and many other control features; compatible with °B Connected solution for data monitoring and recording.



Rotomoulded or steel models

- **Models B51-131-291-381, F131 & BF261:** One piece material cabinet with a lifetime warranty for zero corrosion, highest quality polypropylene for better insulation and no sharp edges to provide easier maintenance and cleaning
- **Models F291-381:** Steel cabinets feature lower overall energy consumption, superior temperature distribution and a highly stable air circulation within the cabinet, remarkable sealing between gaskets, long autonomy and holdover times, and an exceptional life-span for the compressor
- **Smart ergonomics** - Easier and safer handling because of heavier components placed at the bottom



Innovation for more reliability

In conformity with national and international guidelines, regulations for Medical Devices offering reliability, efficiency and safety at an optimal price.

PREMIUM LINE | MODELS B/F/U401-501-701-901 & U201

Exclusive integrated electronics handle bar

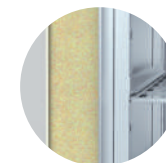
All functionalities are easily accessible:

- Digital control with full functionalities - B Medical Systems 7" full touchscreen display integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities
- Open/close - Heavy duty door lock mechanism



High quality materials

High quality coating, certified medical devices quality and antibacterial, high quality steel for better longevity and easy hygiene control.



Versatile modularity

Excellent storage capacity and modularity - Large choice of shelves and drawers offering modularity for every need.

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY



Blood Bank Refrigerators

B Medical Systems | B Range

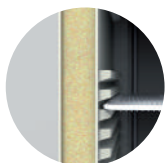
Blood Bank Refrigerators are devices intended for the **safe storage of whole blood and blood components at temperatures ranging from +2°C to +6°C** with multiple controls, warning and data recording safety features developed as a result of 40 years of expertise in refrigeration technology.

9 models • Volume **1.8 > 33.5 cu ft** • Set temperature **+4°C** • Climate class **SN | SN/T** • Compliant to **DIN 13277 | 21CFR Part 864.9700, Class II | AABB Standards**



Integrated multifunction monitoring electronics

Integrated B Medical Systems multifunction electronics; with easy access in the door level; offers alarms, central alarm system, set point security, battery backup, full display and many other control features; compatible with °B Connected solution for data monitoring and recording.



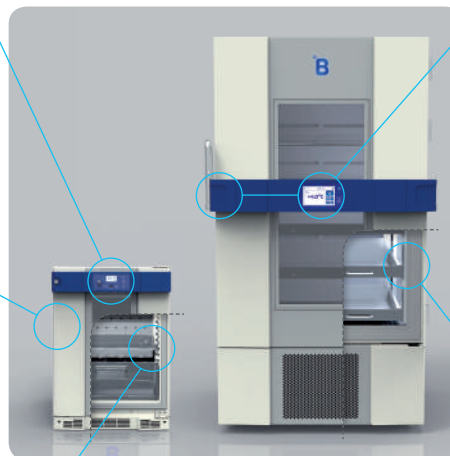
Lifetime warranty corrosion-free cabinet

- One piece material cabinet with a lifetime warranty for zero corrosion, highest quality polypropylene for better insulation and no sharp edges to provide easier maintenance and cleaning
- Smart ergonomics - Easier and safer handling because of heavier components placed at the bottom



High storage capacity

High storage per square meter in terms of net volume, with a very versatile inner volume utility due to multiple user friendly rails allowing modularity.



Exclusive integrated electronics handle bar

All functionalities are easily accessible:

- Digital control with full functionalities - B Medical Systems 7" full touchscreen display integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities
- Open/close - Heavy duty door lock mechanism



High quality materials

High quality coating, certified medical devices quality and antibacterial, high quality steel for better longevity and easy hygiene control.

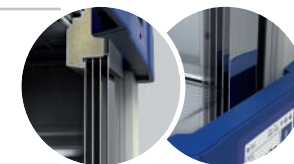


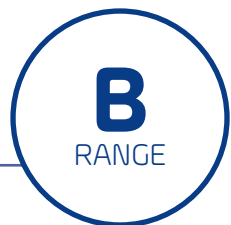
Versatile modularity

Excellent storage capacity and modularity - Large choice of shelves and drawers offering modularity for every need.

Highest insulation value (organic glass door)

4-layer (Precision Line) and 5-layer (Premium Line) PMMA organic glass offering highest insulation, combined with reduced weight reducing efforts to close door and constraints on hinges, offering better longevity.





Blood Bank Refrigerators



B51



B131



B291



B381



BF261

Refrigerator & Freezer combined

<i>Gross / Net volume (cu ft)</i>	1.8 / 1.6	4.3 / 3.7	10.5 / 9.5	12.8 / 11.6	R 4.3 / 3.7	F 4.3 / 3.7
<i>Storage capacity (blood bags)</i>	24 (450ml) / 31 (350ml)	51 (450ml) / 84 (350ml)	159 (450ml) / 235 (350ml)	213 (450ml) / 313 (350ml)	51 (450ml) 84 (350ml)	84 (plasma bags at 350ml)
<i>External dimensions H x W x D (in)</i>	26.4 x 19.5 x 22.6	32.7 x 23.4 x 27.4	65.8 x 23.4 x 27.4	78.0 x 23.4 x 27.4	65.0 x 23.4 x 27.4	



B401



B501



B701



B901

<i>Gross / Net volume (cu ft)</i>	16.9 / 13.8	22.4 / 18.3	28.0 / 22.8	33.5 / 27.3
<i>Storage capacity (blood bags)</i>	270 (450ml) / 375 (350ml)	360 (450ml) / 500 (350ml)	450 (450ml) / 625 (350ml)	540 (450ml) / 750 (350ml)
<i>External dimensions H x W x D (in)</i>	78.3 x 27.5 x 40.9	78.3 x 33.3 x 40.9	78.3 x 39.1 x 40.9	78.3 x 44.8 x 40.9



Plasma Storage Freezers

B Medical Systems | F Range

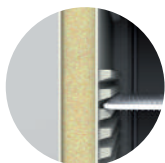
Plasma Storage Freezers are devices intended for the safe storage of frozen blood plasma or blood components at temperatures below -27°C developed as a result of 40 years of expertise in refrigeration technology.

7 models • Volume 4.3 > 33.5 cu ft • Set temperature -41°C / -32°C • Climate class SN | SN/T • Compliant to DIN 13277 | 21CFR Part 864.9700, Class II | AABB Standards



Integrated multifunction monitoring electronics

Integrated B Medical Systems multifunction electronics; with easy access in the door level; offers alarms, central alarm system, set point security, battery backup, full display and many other control features; compatible with °B Connected solution for data monitoring and recording.



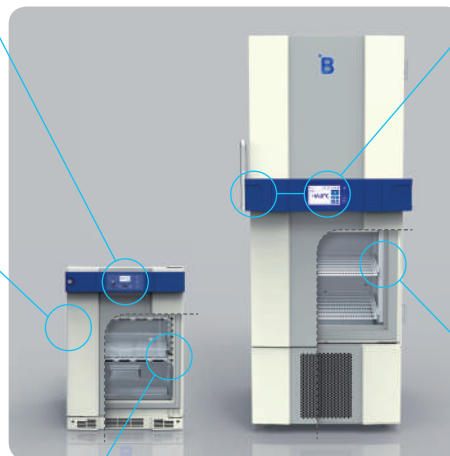
Rotomoulded or steel models

- **Model F131:** One piece material cabinet with a lifetime warranty for zero corrosion, highest quality polypropylene for better insulation and no sharp edges to provide easier maintenance and cleaning
- **Models F291-381:** Steel cabinets feature lower overall energy consumption, superior temperature distribution and a highly stable air circulation within the cabinet, remarkable sealing between gaskets, long autonomy and holdover times, and an exceptional life-span for the compressor
- **Smart ergonomics** - Easier and safer handling because of heavier components placed at the bottom



High storage capacity

High storage per square meter in terms of net volume, with a very versatile inner volume utility due to multiple user friendly rails allowing modularity.



Exclusive integrated electronics handle bar

All functionalities are easily accessible:

- Digital control with full functionalities - B Medical Systems 7" full touchscreen display integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities
- Open/close - Heavy duty door lock mechanism



High quality materials

High quality coating, certified medical devices quality and antibacterial, high quality steel for better longevity and easy hygiene control.



Versatile modularity

Excellent storage capacity and modularity - Large choice of shelves and drawers offering modularity for every need.

Special features for easy deicing and defrosting

- Evaporator offering better performance than market average, resulting in lesser ice formation with automatic defrost
- Insulated inner doors for significantly lower loss of cooling when open



Plasma Storage Freezers



F131



F291



F381

<i>Gross / Net volume (cu ft)</i>	4.3 / 3.7	10.5 / 9.9	11.9 / 11.2
<i>Storage capacity (plasma bags)</i>	84 (350ml)	251 (350ml)	284 (350ml)
<i>External dimensions H x W x D (in)</i>	32.7 x 23.4 x 27.4	68.9 x 23.7 x 25.6	76.8 x 23.7 x 25.6



F401



F501



F701



F901

<i>Gross / Net volume (cu ft)</i>	16.9 / 13.7	22.4 / 18.2	27.9 / 22.6	33.5 / 27.1
<i>Storage capacity (plasma bags)</i>	345 (350ml)	460 (350ml)	575 (350ml)	690 (350ml)
<i>External dimensions H x W x D (in)</i>	78.3 x 27.5 x 40.9	78.3 x 33.3 x 40.9	78.3 x 39.1 x 40.9	78.3 x 44.8 x 40.9

Ultra-Low Freezers

B Medical Systems | U Range

5 models • Volume 8.2 > 33.5 cu ft • Set temperature -82°C • Climate class SN/T • Compliant to DIN 13277 | 21CFR Part 864.9700, Class II



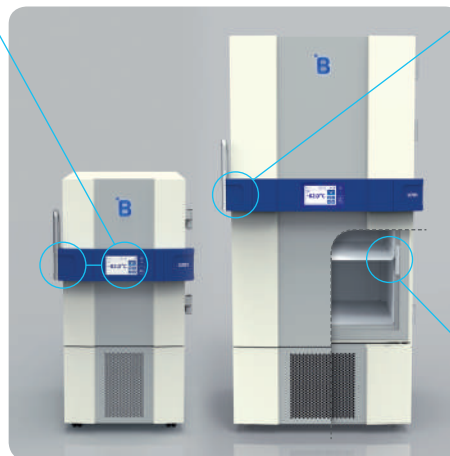
Exclusive integrated electronics handle bar

All functionalities are easily accessible:

- Digital control with full functionalities - B Medical Systems 7" full touchscreen display integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities
- Open/close - Heavy duty door lock mechanism

Versatile modularity

Excellent storage capacity and modularity - Large choice of racks offering modularity for every need.

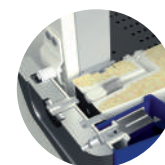


Special features

- Integrated pressure release valve in the door permitting faster opening in one move, and offering easy access for cleaning
- Insulated inner doors for significantly lower loss of cooling when open
- Full compatibility of inner modules and rails, no need to buy new racks, you can keep racks previously used in different models

High quality materials

High quality coating, certified medical devices quality and antibacterial, high quality steel for better longevity and easy hygiene control.



Ultra-low freezers are devices intended for the storage of blood components and blood plasma, human cells, tissues, live virus vaccines, and other laboratory samples at ultra-low temperatures down to -86°C. The devices include an integrated alarm system that warns against unexpected temperature excursions and power failures. U models reflect the highest and most uncompromising requirements with state-of-the-art technology and economy. The cooling system is optimally designed with respect to energy consumption as well as to the development of waste heat and noise. Standard factory setpoint is -82°C, temperature is adjustable from -86°C to -20°C.

Subject to change without prior notice. Some of the accessories shown in the pictures are optional. The figures are approximate, and may vary based on the number of bags that are actually stored and the different bag manufacturers' specifications available on the market, the actual bag sizes as well as the individual user's practice of loading.



Ultra-Low Freezers



U201

<i>Gross / Net volume (cu ft)</i>		8.2 / 7.7
<i>Storage capacity</i>	<i>Plasma bags</i>	150 (350ml)
	<i>Cryoboxes (models H50)</i>	150 (with 6 Cryo-Racks)
	<i>Vials</i>	15000 (2ml)
<i>External dimensions H x W x D (in)</i>		50.9 x 27.5 x 40.9



U401



U501

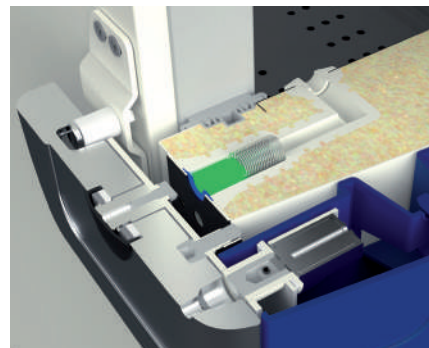


U701



U901

<i>Gross / Net volume (cu ft)</i>		16.9 / 16.0	22.4 / 21.3	27.9 / 26.5	33.5 / 31.8
<i>Storage capacity</i>	<i>Plasma bags</i>	300 (350ml)	400 (350ml)	500 (350ml)	600 (350ml)
	<i>Cryoboxes (models H50)</i>	345 (with 9 Large Cryo-Racks and 3 Cryo-Racks)	460 (with 12 Large Cryo-Racks and 4 Cryo-Racks)	575 (with 15 Large Cryo-Racks and 5 Cryo-Racks)	690 (with 18 Large Cryo-Racks and 6 Cryo-Racks)
	<i>Vials</i>	34500 (2ml)	46000 (2ml)	57500 (2ml)	69000 (2ml)
<i>External dimensions H x W x D (in)</i>		78.3 x 27.5 x 40.9	78.3 x 33.3 x 40.9	78.3 x 39.1 x 40.9	78.3 x 44.8 x 40.9



INTEGRATED PRESSURE RELEASE VALVE

This aluminium die cast handle offers a strong and ergonomic feeling that allows the user to open the door with one hand. Inside the freezers, the vacuum will be automatically removed through a release valve, located in the door, in order to allow easy cleaning.

The handle is equipped with an electric lock that can be deactivated through the user interface.



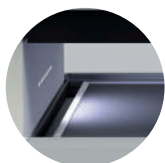
Contact Shock Freezers

B Medical Systems | CSF Range

2 models • Set temperature -30°C • Climate class SN • Compliant to 21CFR Part 864.9700, Class II | AABB Standards

Fastest contact shock freezers worldwide

Our contact shock freezers provide the shortest freezing cycle on core temperature of -30°C : nearly 100 units of 250 ml within less than 60 minutes.



State-of-the-art contact freezing technology™

Our innovative and patent pending system of inclined trays delivers the most homogeneous freezing and offers the best in repeatability and productivity, with operator independent performance for 100% performance consistency.

Highest degree of ergonomics

Each tray has an effective and usable height, giving easier access for quicker loading and enabling easier manipulation of bags.



Optimized pull-down of the layers

The freezing down is quicker, the clinical payback on investment is maximised and the concentration of factors 8, 9 and albumin is increased.

Integrated multifunction electronics

Located at eye level, the electronics are easily accessible and can be connected with our fully integrated monitored solutions for a complete traceability of frozen bags.



Maintenance-friendly design

- Our contact shock freezers offer an easy cleaning and disinfection facility
- Thanks to the additional battery, plates can still be opened to access the bags, in case of power failure

Contact shock freezers are devices intended for the quick-freezing and subsequent temporary storage of blood plasma or biological samples to a core temperature below -30°C within less than one hour. CSF models are built in compliance with directives for the preparation of blood plasma and offers multiple controls, warning and data recording safety features developed as a result of 40 years of expertise in refrigeration technology.

CSF models are also available as split version (CSF61-101 S) and water-cooled version (CSF61-101 W). Technical data available upon request.



Contact Shock Freezers

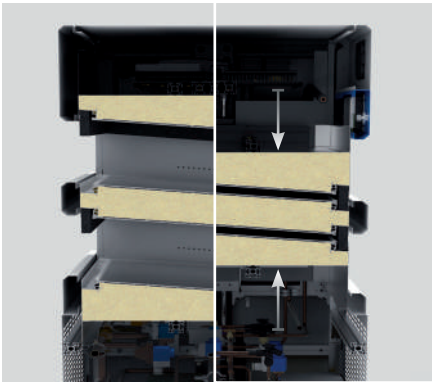


CSF61 L



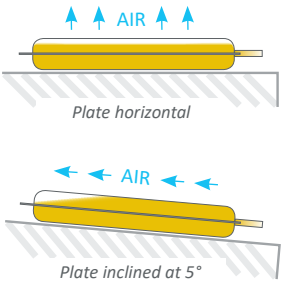
CSF101 L

Freezing capacity (plasma bags)	Single layer	20 at 1000ml (content 850ml)	32 at 1000ml (content 850ml)
	Double layer	30 at 350ml (content 250ml)	48 at 350ml (content 250ml)
Freezing time to core temperature of -30°C at +25°C ambient temperature (in single layer)		60 at 350ml (content 250ml)	96 at 350ml (content 250ml)
		20 units (1000ml) ± 45 min.	32 units (1000ml) ± 51 min.
Operating temperature (preset)	Pre-cooling	30 units (350ml) ± 26 min.	48 units (350ml) ± 26 min.
	Freezing	-40°C	-40°C
Eco-mode		-50°C	-50°C
		-43°C	-43°C
External dimensions H x W x D (in)		75.2 x 42.5 x 32.7	75.2 x 59.1 x 32.7



OPTIMIZED CONTACT FREEZING

- Levels operate independently, allowing simultaneous freezing and defrosting as necessary
- Inclined plates at 5° ensure full contact with plasma and minimizes effect of air trapped in bags negatively influencing repeatability of freezing cycle times, providing operator independent performance for 100% performance consistency



Transport Systems

B Medical Systems | MT Range

5 models • Volume 0.08 > 1.55 cu ft • Compliant to ADR | RID | IMDG | ICAO-TI | IATA-DGR



Designed for intensive use

- The special transport boxes, made from rotationally moulded polyethylene (a literally indestructible synthetic), feature an extraordinarily sturdy casing that is almost impervious to external forces, e.g. caused by bumps and falls, whose sturdiness has been proven in drop tests
- The corrosion free material offers easier and safer handling and is light weight. All transport systems can easily and thoroughly be cleaned and disinfected with conventional disinfectants. There are no inaccessible corners or areas inside the transport systems
- The clasps can be sealed or equipped with locks and are therefore protected against unauthorised access during transport



Highest insulation value

- The polyurethane foam injected into the double walls of these transport systems is free of CFC and HCFC and ensures optimum insulation and protection of quality of the transported goods, especially with longer transport times
- Due to the outer casing's self-insulation against the environment, the B Medical Systems transport systems maintain a stable temperature even at higher ambient temperatures



Transport Systems are devices intended for the safe transport of blood or other blood components. The model range MT consists of five passive transport systems. B Medical Systems transport systems are ideal for intensive use with many transport applications, even under difficult climatic conditions. MT models conform with the European agreement on the international transport of hazardous goods by Road (ADR), by Rail (RID), by sea (IMDG) and with International regulations for air transport (ICAO-TI / IATA-DGR).

For all passive transport boxes PCM cooling systems are available as an option (-32°C, +4°C, +22°C and +37°C)*.

* MT2 is not validated with PCMs. MT12 is not validated for the PCM +22°C and PCM +37°C. MT 25 is not validated for the PCM +37°C. Subject to change without prior notice. Some of the accessories shown in the pictures are optional. The figures are approximate, and may vary based on the number of bags that are actually stored and the different bag manufacturers' specifications available on the market, the actual bag sizes as well as the individual user's practice of loading.



Transport Systems



MT2



MT4



MT8



MT12



MT25

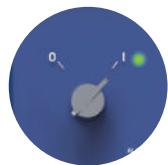
<i>Cooling system</i>	Passive	Passive	Passive	Passive	Passive
<i>Gross volume (cu ft)</i>	0.08	0.28	0.71	0.85	1.55
<i>Storage capacity (bags)</i>	1 (450ml) / 2 (270ml)	4 (450ml) / 6 (270ml)	8 (450ml) / 14 (270ml)	15 (450ml) / 25 (270ml)	26 (450ml) / 40 (270ml)
<i>External dimensions H x W x D (in)</i>	8.3 x 9.8 x 5.9	11.8 x 14.3 x 11.1	17.2 x 23.1 x 11.3	19.6 x 21.7 x 18.7	19.6 x 28.0 x 21.7



Full functionalities at a glance

B Medical Systems | Electronics

PRECISION LINE | Multifunctional electronics with digital display and easy access, in the door handle; compatible with °B Connected monitoring solution.



Key power switch 0 = OFF / I = ON

- To switch the unit on, turn the key switch to position „I“. The green power LED lights up
- After the self-check, the temperature inside the device is displayed



Digital display

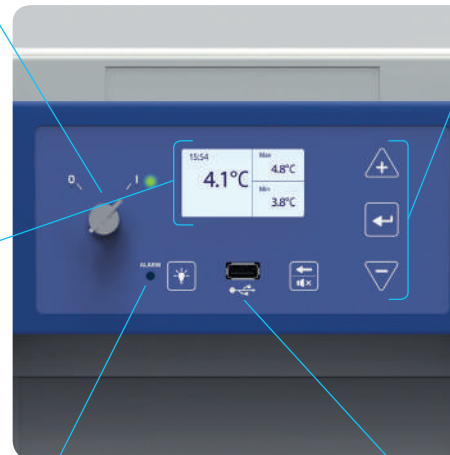
During normal operation the display shows:

- Left-hand side: current time and internal temperature displayed in °C (Celsius) or °F (Fahrenheit) in increments of 0.1°
- Right-hand side: the maximum and minimum inside temperature



Acoustic and visual alarm signal

When an alarm occurs, the red alarm LED lights up and an acoustic signal sounds. The corresponding alarm message appears on the display with the inside measured temperature. If several alarms occur simultaneously, the messages will be shown alternately.



Function buttons

- UP / DOWN buttons: navigation within the parameters and modification of their values
- ENTER button: use the ENTER-key to confirm the actual selection. This applies the parameter value. The change of a parameter only becomes effective when confirmed
- MUTE / BACK button: in case of an alarm, the acoustic alarm can be muted for a specified time. In Parameter-mode the same key acts as "BACK-button" to go one step back
- LIGHT button: allows to switch on or off the interior light of the device without opening the door (for B range)



USB port

A USB port is available for data export only. Measured values of the display sensor are stored for at least 30 days (ring buffer) together with a time stamp.



The B Medical Systems Electronics

offers a wide range of adjustment and diagnostic functionalities as well as additional protection / warning operations (via external alarm operations, histories and individual display signals).

PREMIUM LINE | Multifunction electronics with 7" full touchscreen display, integrated at optimal level in the door handle with pre-installed connection allowing exclusive °B Connected monitoring functionalities.



Power switch OFF / ON

- To switch on press the ON/OFF button for 1 second. The green LED will light up
- Switch off protected by password. The door will automatically unlock before powering down



Touchscreen 7" full display

During normal operation the display shows:

- At the top: current voltage, current time, defrosting (for F range), gasket heater (for F and U ranges) and login status (user level)
- Left-hand side: temperature of the regulation sensor (displaying this temperature can be disabled through the settings) and internal temperature displayed in °C (Celsius) or °F (Fahrenheit) in increments of 0.1°
- Right-hand side: touch buttons to access door unlock, clean, menu, alarm mute and message functions



USB port & SD card slot

Acoustic and visual alarm signal

When an alarm occurs, the red alarm LED lights up and an acoustic signal sounds. The corresponding alarm message appears on the display together with the inside measured temperature. If several alarms occur simultaneously, the messages will be shown alternately.



Keycard reader

Login / Unlock using an NFC card

Touch buttons

- DOOR UNLOCK button: unlocks the door of the device
- CLEAN button: the cleaning button allows the user to disable the touch capability of the screen for a short period of time in order to clean the screen. This button is replaced by the logout button when user is logged in
- MENU button: allows access to the menu screen
- ALARM MUTE button: deactivates the acoustic alarm for a predefined period of time
- ACTIVE ALARMS AND WARNINGS button: during a warning or alarm situation, the color of this button and the corresponding level will change. Information on an active alarm and warning is accessible by pressing the message button



SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

Optimum control and protection

B Medical Systems | °B Connected & DCU



°B CONNECTED | MONITORING SOFTWARE

Universal software for the monitoring of refrigeration devices, including the acquisition, recording and visualization of temperature data.



- Unique monitoring software for the full range of Blood Management Solutions and Medical Refrigeration products
- Web-based interfaces for computers and mobile devices
- Modern design for simple and intuitive use
- Graphic display of temperature curves
- Integrated event and activity history of appliances' components
- Data recording on centralized database for long-term archiving
- Easy setting of specific alarm, via email or SMS alerts
- Generation of reports compiling crucial data and activities
- Temperature and detailed device data export for third-party software
- Important cost advantage compared to a traditional circular chart recorder and its spare parts
- REST API to access raw data directly from the database in read-only mode

KEY BENEFITS:

- Unique interface for the monitoring of the full range of refrigeration devices
- Centralized database providing data access to entire customer network

1 CONFIGURATION



USER MANAGEMENT

- Password login
- Access right



DEVICE SETTINGS

- Device information
- Device & user configuration



ALARM PROFILE

- Parameters of the alarm profile (day, hour, minute)
- Alarm management

2 DISPLAYING



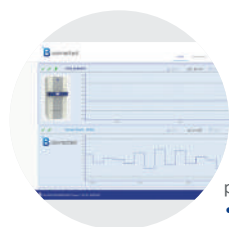
DETAILED DISPLAY

- Optimized design for mobile and touch compatible devices
- Support of multiple languages
- Real-time data: Current temperatures, set point, upper and lower limit, door state, compressor runtime
- Log data: Events, alarms within date/time, event type, description of the event. Event and alarm confirmation function
 - Parameter settings of each device: Factory settings, real-time clock, language, firmware version, RS485 address, IP address
- Batch management: Plasma bag barcodes scanned on device and imported in the database

°B Connected & DCU offer a highly flexible system that is adaptable to specific customer requirements

- > Complete & legally safe documentation of temperature data
- > Comprehensive applications and diagnostic functionalities

3 ANALYSING



REAL TIME GRAPHICS

- Graphic temperature progress (in real time)
- Adjustable time axis
- Offline navigation



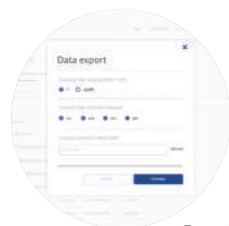
CONTROL CENTER

- Overview (Control Monitor) of all monitored appliances:
- Information regarding status, appliance name, location, connection, upper and lower limits, current temperature, events / alarms
 - Dashboard to combine several temperature measurements in one single graph



INTERACTIVE ANALYSIS

- No limitation in terms of time range
- Freely scalable
- Detailed information for any point of time
- Temperature data, events and alarms
- Login history and audit trails



PRINTED ANALYSIS

- Customizable print reports on daily, weekly and monthly basis
- Exports in various file types
- Standardized format

DCU | DATA COMMUNICATION UNIT (PRECISION LINE)

Hardware module monitoring all operating conditions and passing them through to a central database – via local network.



- Interface connection of B Medical Systems appliances to an existing network
- Graphical user interface displaying temperature and configuring devices and alarms easily
- Direct connection to Ethernet and serial bus RS485
- Digital in/out (programmable and customer-specific use)
- Recording and storing appliance-relevant data
- Integrated USB port allowing to export archived data
- The DCU combined with the °B Connected software replaces the paper temperature recorder
- All data are recorded and saved in the internal storage of the DCU and backed up in °B Connected database if connected
- Several additional self-sufficient temperature sensors (up to 4 PT1000) may be connected
- Humidity sensor input (4-20 mA)

KEY BENEFITS:

- Central system collecting relevant temperature data of the appliances and their respective operating conditions
- A number of connection abilities allowing flexible upgrades for individual projects

SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY



Blood Management Solutions

Safe global blood management: from collection to transfusion, transportation, processing and storage



Vaccine Cold Chain

Reliable solutions for safe vaccination around the world



Medical Refrigeration

State-of-the-art technology for the exacting needs of the medical world

Our Global Expertise



After Sales support and service

We strive to provide you with the highest standards of service; not only through our selected distributors and partners for all your maintenance and service but also our second line trouble shooting and after sales service. This factory-based group of engineers is there to help our partners and yourself to get the best solution for your cold storage needs.



SAVING LIVES THROUGH RELIABLE AND INNOVATIVE TECHNOLOGY

B Medical Systems (formerly Dometic Medical Systems) has more than 40 years' experience in the medical refrigeration sector.

The company, formerly known as Electrolux Medical Systems, was founded in 1979 when the World Health Organization approached Electrolux in Vianden, Luxembourg, to create a solution for the safe storage and transport of vaccines around the world. In 2001, Electrolux Medical Systems became part of the Dometic Group, and was renamed Dometic Medical Systems. Having established a legitimate reputation in the medical equipment industry, the company has also become a global leader in vaccine cold chain.

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WE SUPPORT



Since 2019 B Medical Systems has been committed to the UN Global Compact corporate responsibility initiative and its principles in the areas of human rights, labour, the environment and anti-corruption.

Luxembourg, in the heart of Europe

